Professor Jayashankar Telangana State Agricultural University

Krishi Vigyan Kendra, Palem, Nagarkurnool Dist-509215

The Indian council of Agricultural Research (ICAR) sanctioned for the establishment of Krishi Vigyan Kendra on 31 August, 2011 at Palem in the erstwhile Mahabubnagar dist. of AP state on 53.14 acre land under the Administrative control of Professor Jayashakar Telangana State Agricultural University, Hyderabad under the plan scheme of the council.

1) Staff Position

Sl. No.	Sanctioned post	Name of the incumbent	Designation	Discipline	Permanent /Temporary
Scientific Staff					
1	Programme Coordinator	Dr.T. Prabhakar Reddy	Programme Coordinator	Soil science	Permanent
2	Subject Matter Specialist	Mr.K. Ramakrishna	SMS (Crop Production)	Agronomy	Permanent
3	Subject Matter Specialist	Dr.O.Shaila	SMS (Plant Protection)	Entomology	Permanent
4	Subject Matter Specialist	Dr.B. Rajashekar	SMS (Extn)	Extension	Permanent
5	Subject Matter Specialist	Mrs.E.Jyoshna	SMS (H.Sc)	Home science	Permanent
6	Subject Matter Specialist	Dr.Adi Shankar	SMS (Horti)	Horticulture	Permanent
7	Subject Matter Specialist	Vacant	-	Veterinary	-
Supporting staff					
8	Programme Assistant	Mr. M.Praveen Kumar	Programme Assistant (Lab)	B.Sc. (Horti)	Contract
9	Programme Assistant	Mr. M.Anjaneyulu	Programme Assistant (Computers)	M.Tech	Contract
10	Farm Manager	B. Spandana	Farm Manager	B.Sc. (Agri)	Contract
11	Assistant	E. Raghavendra	Assistant	B.A	Contract
12	Stenographer	M. Prashanth	Stenographer	B.Tech	Contract
13	Driver	Mr. Naresh Goud	Driver	B.Sc.	Contract
14	Driver	Mr.C. Balakrishna	Driver	B.Sc.	Contract
15	Messenger	Mr. Srishailam	Messenger	-	Out sourcing
16	Messenger	Mrs. B.Maisamma	Office subordinate	-	Permanent

2). Operational area of KVK, Palem – 20 mandals of Nagarkurnool dist.

S.No	Mandal	S.No	Mandal
1	Kalwakurthy	11	Nagarkurnool
2	Vangoor	12	Peddakothapalle
3	Veldanda	13	Tadur
4	Achampet	14	Telkapalle
5	Amrabad	15	Thimmajipet
6	Balmoor	16	Uppununthala
7	Bijnapalle	17	Urkonda
8	Kodair	18	Charakonda
9	Kollapur	19	Pentlavelli
10	Lingal	20	Padara

3). Adopted Villages

S.No	Villages	Mandals	kms
1	Avancha	Thimmajipet	24
2	Turkapally	Amrabad	45
3	Vasanthapur	Bijinapally	4
4	Parvathapur	Telkapally	32
5	Machinenipally	Kollapur	36
6	Khanapur	Bijinapally	5

4) **Mandate of KVK**: The mandate of KVK is Technology Assessment and Demonstration for its Application and Capacity Development. To implement the mandate effectively, the following activities are envisaged for each KVK

1) On-farm testing to assess the location specificity of agricultural technologies under various farming systems
2) Frontline demonstrations to establish production potential of technologies on the farmers'
3) Capacity development of farmers and extension personnel to update their knowledge and skills on modern agricultural technologies.

4) To work as Knowledge and Resource Centre of agricultural technologies for supporting initiatives of public, private and voluntary sector in improving the agricultural economy of the district.
5) Provide farm advisories using ICT and other media means on varied subjects of interest to farmers.

In addition, KVK produce quality technological products (seed, planting material, bio-agents, and livestock) and make it available to farmers, organize frontline extension activities, identify and document selected farm innovations and converge with ongoing schemes and programs within the mandate of KVK.

5). KVK, Palem as a Knowledge and resource centre:

A). Infrastructure and Demonstration units established:

1. Well established instructional farm in an area of 20 ha.
2. KVK Office building
3. Farmers hostel with a capacity of 40 members
4. Soil testing laboratory and training hall
5. Training hall with a capacity of 70 members equipped with A.V. aids
6. Threshing floor and seed storage rooms
7. Farm mechanization unit
8. Information Centre
9. Seed processing unit
10. Food Processing unit
11. Vermicompost Unit
12. Shadenet for cultivation of vegetable crops and nursery production
13. Dry land horticulture block with Mango, custard apple, amla and sapota
14. Azolla unit
15. Waste decomposer unit
16. Farm pond
17. Permanent pandal unit
18. Drip and mulching vegetable cultivation unit

B). Services offered:

1. Farm agro advisoryservices through press and electronic media
2. Soil testing services

3. Implementation of RAWEP Programme to the BSc (Ag) students.
4. Pest and diseases diagnostic services
5. Organizing participatory rural appraisal to create awareness to the farmers regarding availability of different resources and problems identified in the villages.
6. Organizing method demonstrations, group discussions, training programmes, rallies, campaigns etc.
7. Production and supply of quality planting and seed material
8. Dissemination of information through ICT mechanism (Whats app groups and KisanSarathi)
9. Encouraging farmer to farmer extension (Innovative farmers network)
10. Conducting exposure visits
11. Documenting ITKs

C). Technologies advised/popularised:

1. Showcasing the potential of short duration Redgram variety PRG-176 and greengram variety WGG 42 by organizing Cluster front line demonstrations.
2. Showcasing the potential of Integrated Crop Management (ICM) in Ground nut, Castor and sesamumcrop (seed treatment with tebuconazole, application of gypsum etc.) for achieving higher yields by organizing Cluster front line demonstrations
3. Integrated Pest Management Practices in Paddy, Groundnut, Chilli, Cotton and Redgram
4. Integrated fall army worm in Maize
5. Popularization of direct sowing and Drum Seeding Technologyin Paddy
6. Popularization of alternate wetting and drying technology in Paddy
7. Organic farming practices in paddy and groundnut
8. Showcasing the potential of Marigold under drip as an alternative to the Maize crop
9. Trellis technique in Tomato
10. Stem application for the control of sucking pest complex in Cotton
11. Installation of yellow sticky traps for the control of whiteflies in Cotton
12. Popularization of Bhendi cutter for harvesting of Bhendi crop
13. Popularization of improved fodder crop varieties

14. Popularization of Redgram as an alternative crop to Cotton
15. Popularization of alleyways formation for the control of BPH in Paddy
16. Popularization of chemical weed management in Paddy and Maize
17. Popularization of soil test based fertilizer recommendations in paddy
18. Popularization of rice fallow sunflower under zero tillage condition
19. Popularization of parawilt, sucking pests and PBW management in cotton
20. Popularization of BPH, Panicle mite & stem borer management in paddy
21. Introduction of seed cum fertiliser bag to reduce drudgery while sowing and application of fertilizers
22. Supplementation With Nutrient Dense Millet Bar To Underweight Adolescent Girls
23. Promotion of nutritional garden as nutritional security
24. Popularization of Value addition to Pulses, oilseeds and millets
25. Designing and introduction of Innovative Farmers Network
26. Conducting Diploma in Agricultural Extension Services for Input Dealers (DAESI)programme
27. PKM-1 in drumstick, Bheema Super in Onion, Arka Abhed in Tomato are being popularized.
28. Promoting Green gram as a Proceeding crop to paddy
29. Popularization of Dry land Integrated farming system models
30. Encouraging of the farmers for millets cultivation
31. Encouraging the farmers on convert of waste into vermicompost
32. Encouraging farmers on natural ripening champers & chemicals

6).Total Extension Activities conducted

S.No.	Other Extension Activities	Number
1	RAWE Programme	8 batches
2	Kisan Melas	28
3	Group Discussions	206
4	Method demonstrations	201
5	Diagnostic visits	687
6	Training programmes	608
7	Agricultural Exhibitions	28

8	Farmer scientist interaction meetings	64
9	Press notes	714
10	Publications	31
11	TV programmes	46
12	World soil day	1
13	World Earth day	1
14	World Food Day	2
15	Nutritional week	2
16	Technology weeks	4
17	Parthenium awareness week	4
18	Swachhta Abhiyan	2
19	Swachhta Pakhwada	4
20	Swachhta Hi Seva	4
21	PJTSAU Foundation Day	2
22	ICAR Foundation Day	2
23	Krishi Unnati Mela	2
24	Mahila Kisan Divas	1
25	Pradhan Manthri Fasal Bheema Yojana	1
26	Pradhan Mantri Kisan Samman Nidhi	2
27	Kisan Divas	1
28	Jai Kisan Jai Vigyan Divas	2

7) Minikit Testing: The Seed Minikits programme is a major tool for introducing and testing new varieties of seeds in the farmers' fields. Total 28 varieties tested in 138 locations during kharif and rabi seasons of 2022-23.

S.No.	Minikits (Kharif)	S.No.	Minikits (Rabi)
1	Paddy (RDR 1200)	1	Paddy (RDR-1162)
2	Paddy (JGL-27356)	2	Paddy (RNR-31479)
3	Paddy (JGL-33124)	3	Paddy (WGL-1246)
4	Paddy (JGL-28639)	4	Paddy (JGL-28639)
5	Paddy (WGL-1119)	5	Paddy (KPS 6251)
6	Paddy (WGL 1246)	6	Safflower (TSF 87)

7	Paddy (KPS-6251)	7	Greengram (MGG 389)
8	Paddy (RNR-28361)	8	Blackgram (MBG-1080)
9	Paddy (RNR-29325)	9	Maize (DHM 182)
10	Paddy (RNR-31479)	10	Maize (DHM 206)
11	Redgram (WRGe 182)	11	Maize (KNMH 4191)
12	Maize (DHM 182)	12	Sorghum (SVT-55)
13	Blackgram (MBG 1080)	13	Sesamum (JCS-3287)
14	Sesame (JCS-3287)	14	

8) CFLDs on Pulses & Oilseeds under NFSM Project: Cluster frontline demonstration (FLDs) to demonstrate the production potential of newly released technologies on the farmer's fields at different location in a given farming system and organized farming and extension activities for farmer and extension workers for dissemination of various technologies.KVK, Palem conducted CFLDs on Pulses & Oilseeds on fallowing crops across different locations.

S.No.	Crop	No. of Demos	Area (ha)
CFLDs on Pulses			
1.	Redgram	50	20
2.	Blackgram	50	20
3.	Greengram	50	20
	Total	**150**	**60**
CFLDs on Oil seeds			
1.	Groundnut	75	30
2.	Castor	25	10
3.	Sesamum	25	10
	Total	**125**	**50**
	Grand Total	**275**	**110**

9) Budget Details of KVK, Palem - 2022-23

S.No.	Head of Account	Budget sanctioned 2022-23 (Rs.)	Expenditure upto 10th Feb, 2023 (Rs.)	Balance: (Rs.)
1	Pay & Allowances	1,23,66,000	98,46,952	25,19,042
2	Travelling allowance	1,40,000	85,598	54,402
3	Office Contingencies	4,19,000	4,07,000	12,000
4	Technical Programmes	4,80,000	5,32,526	- 52,526
5	SC-SP - Recurring	3,51,000	3,50,987	13
6	SC-SP - Non recurring	6,40,000	6,39,443	57
7	TSP Project - General	4,30,000	3,26,615	1,03,385
8.	TSP Project - Capital	5,00,000	1,00,000	4,00,000
9.	CFLD Pulses	3,08,713	2,97,540	11,173
10.	CFLD Oil Seeds	4,60,000	Nil	Nil
11.	IRM Project	1,50,000	1,41,290	8,710
12.	DAMU Project	15,07,877	14,22,812	85,065
13.	Minor works	5,00,000	Nil	5,00,000

10. Projects operating at KVK, Palem

1. SC-SP Project
2. TSP Project
3. RKVY Project
4. Seed Hub Project on pulses
5. DAMU Project
6. HDPS Cotton
7. Pilot project on Drum seeding
8. IRM Project
9. Mass Trapping
10. Unnathi Project
11. CFLDs on Pulses

12. CFLDs on Oilseeds

11. Agro advisory services - DAMU project

Objectives

- ✓ To improvise the existing district level Agromet Advisory Services (AAS) so as to deliver crop and location specific AAS to farmers at block level.
- ✓ To design optimum observatory network for issuance of village level advisories for implementation of crop weather insurance.
- ✓ To establish District Agromet Units as nodal centre for catering to needs of agriculture services.
- ✓ To provide customized advisory bulletins through last mile connectivity to farmers with personalized agromet advisory services.
- ✓ To extend the weather based advisory service to the allied areas like livestock, grazing of farm feed etc.
- ✓ To establish appropriate dissemination and support system for weather-based crop insurance in the country

Operational Area

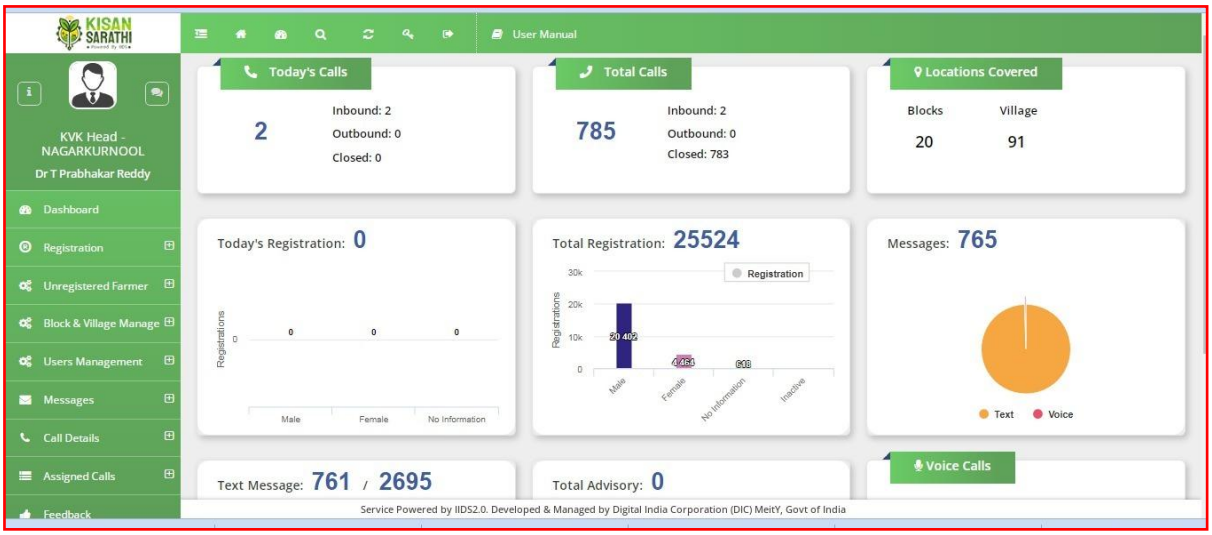
- Whats app groups : 179
- Total Districts : 03
- Total Mandals : 40
- Framers : 19,288
- Agriculture Officers : 40
- AEOs : 280
- Input Dealers : 120

Alet messages / Bulletins

- Bulletins released : 136
- Alert messages : 221
- Weather forecast : 100

KisanSarathi:

Area covered = 20 blocks of Nagarkurnool District
Total Registrations = 25,524
Messages sent = 785
Calls received = 765



12. Seed production and revolving fund status: The following quantity of paddy seed produced at KVK instructional farm during 2014-15 to 2022-23.

Year	Quantity (q)	Value (Rs.)	No. of farmers benefited (Nos.)
2014-15	89.4	3,57,600	125
2015-16	56.1	2,44,005	430
2016-17	1.76	35,200	35
2017-18	24.8	1,61,200	720
2018-19	340.1	14,73,837	1090
2019-20	104.0	4,57,600	520
2020-21	469.1	20,64,040	1756
2021-22	318.8	14,02,720	1564
2022-23	339.6	13,58,400	1455
Total	**1743.6**	**70,97,002**	**7,695**

Outcome: A total of **1743 quintals of paddy seed** produced from 2014-15 to 2022-23 and distributed to **7,695 farmers**. The total area coverage under paddy with this produced seed was about **8,715 acres**. An amount of **Rs. 70,97,002/- (70.97 lakhs)** generated from paddy seed production.

Status of Revolving Fund (General)

Year	Income during the year	Expenditure during the year	Closing balance as on 31st March

2015-16	5,13,719	5,2,7210	3,84,220
2016-17	4,09,260	1,48,073	6,45,407
2017-18	4,67,885	3,09,130	8,04,161
2018-19	12,27,372	4,50,263	14,72,673
2019-20	15,83,479	21,33,356	7,84,622
2020-21	15,67,133	13,96,986	9,54,770
2021-22	30,29,961	23,81,364	14,72,837
2022-23	**35,52,748**	**16,60,341**	**27,19,962**

12. **Seed Hub project on Pulses:** The project entitled "Creation of seed hub for increasing indigenous production of pulses in India" under NFSM has been allotted to the KVK, Palem during 2016-17.The following quantity of pulses seed produced during 2014-15 to 2022-23.The seed production under Farmers' Participatory Mode was implemented at farmers fields across different villages of Nagarkurnool District

Year	Crop	Variety	Quantity qts	Amount realised
2016-17	Redgram	PRG-176	191.1	12,45,016.5
	Redgram	PRG-158	24.8	1,61,200
	Blackgram	PU-31)	28.8	3,16,800
	Greengram	WGG-42	26.4	1,98,000
	Horsegram	CHRG-19	2.2	12,100
2017-18	Redgram	PRG-176	129	8,40,435
	Blackgram	PU-31	64.76	7,12,360
	Greengram	WGG-42	32.2	2,41,500
2018-19	Redgram	PRG-176	182.70	12,78,900
	Blackgram	PU-31	133.11	7,62,975
	Greengram	WGG-42	88.79	6,65,925
2019-20	Redgram	PRG-176	43.83	4,26,250
	Blackgram	PU-31	Nil	1,43,130
	Greengram	WGG-42	138.81	14,31,210
2020-21	Redgram	PRG-176	130.6	16,97,800
	Blackgram	PU-31	20.40	2,65,200
	Greengram	WGG-42	301.0	33,11,000
2021-22	Redgram	WRGe 97	50.37	6,54,810
	Blackgram	PU-31	19.23	2,49,990

	Greengram	WGG-42	106.65	11,73,150
2022-23	Redgram	PRG 76	243	31,59,000
	Blackgram	PU-31	110	14,30,000
	Greengram	WGG-42	120	13,80,000
		Total	**2,188.25**	**2,17,56,752**

Status of Revolving Fund (Seed Hub)

Year	Opening Balance (1st April)	Amount Sanctioned	Fund Utilized	Fund Earned (by seeds sale)	Closing Balance (31st March)
2016-17	Nil	70,00,000	7,53,310	3,02,860	65,49,550
2017-18	65,49,550	39,54,166	19,02,329	18,81,033	54,82,419.89
2018-19	54,82,419.89	40,45,834	48,72,746	50,03,986	96,59,493.89
2019-20	96,59,493.89	Nil	27,94,409	24,53,292	93,55,554.89
2020-21	93,60,833.89	Nil	23,57,452	31,36,334	1,01,39,715.89
2021-22	1,01,39,715.89	Nil	44,08,849	63,09,829	1,20,40,696.61
2022-23	**1,20,40,696.61**	**NIL**	**20,53,142**	**25,00,110**	**1,25,11,835.89**
Total	**-**	**1,50,00,000**	**1,91,42,237**	**2,15,87,444**	**-**

- ✓ The total 2188 quintals of processed quality seed of pulses was produced by KVK, Palem during 2017-18 to 2022-23. Accordingly, these quality seeds could have covered an acreage of 38,500 ha which is contributing 60 % of total pulses area of Nagarkurnool District. This has resulted in increased seed replacement rates of pulses in the low productivity area reflected in enhanced productivity of major pulses. The total gross amount realized from pulse seed production programme (2016-17 and 2022-23) was Rs.2.18crores. The net profit realized to the KVK, Palem is 25,11,835/- (25.11 lakhs).

Production of planting materials at KVK farm during 2014-15 to 2022-23

Year	Quantity (Nos)	Value (Rs.)	No. of farmers benefited (Nos.)
2014-15	1000	5,000	20
2015-16	4,80,000 (slips like Co_4, Co_5, APBM, Pulejayanthi)	-	120

2016-17	1,35,632	1,41,126	82
2017-18	34,000	22,000	50
2018-19	1,95,675	1,48,770	90
2019-20	2,62,000	2,73,270	142
2020-21	1,31,000	1,05,710	88
2021-22	1,40,000	82,136	96
Total	**13,79,307**	**5,04,742**	**688**

- ✓ **Outcome:** A total of **13,79,307 (13.79 lakhs)seedlings**produced from 2014-15 to 2021-22 and distributed to **688 farmers**. An amount of **Rs. 5,04,742/- (5.04 lakhs)** generated from vegetable seedling distribution

13. Awards: KVK, Palem received **Best Extension Center Award** on the occasion of 8th University Foundation Day Celebrations held at University Auditorium of Rajendranagar, Hyderabad on 03.09.2022.

14. Impact of the centre

1. Krishi Vigyan Kendra, Palem played lead role in increasing area and production in pulses through Seed Hub Project and CFLDs on Pulses

- ✓ Krishi vigyan Kendra, Palem conducted the cluster front line demonstrations (CFLDs) on pulses during 2017-18 to 2021-22. A total of 425 demonstrations has been conducted on 170 ha area across the different villages of the Nagarkurnool District. The HYVs of PRG-176 in Redgram, WGG-42 in Greengram and PU-31 in Blackgram were popularized through seed hub project and CFLDS. ICM technology in Redgram, Greengram, Black gram and Bengalgram, has been popularized through conducting 28 trainings and 16 field days to obtain additional returns in the pulses cultivation.

- ✓ KVK, Palem produced 729 quintals Redgram (PRG 176)) , 693 quintals of green gram (WGG 42) and 266 quintals of black gram (PU 31) under seed hub project and distributed to farmers.A total of 1840 quintals of processed quality seed of pulses was produced under seed hub and distributed to the farmers. Accordingly these distributed seed have covered an area of 33,702 acres and contributing the 60 of total pulse area of the Nagarkurnool District. This has resulted in increased seed replacement rates of pulses in the low productivity area with high yielding short duration varieties which reflected in enhanced

productivity of major pulses. This substantially increased the income as well as the livelihood of the farming community of the Nagarkurnool district.

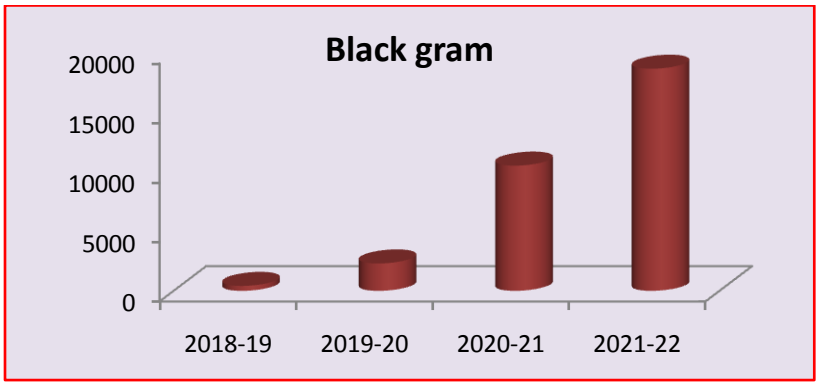


Fig.**Area sown under blackgram in Nagarkurnool district from 2018-19 to 2021-22**

Area under blackgram crop was 2200 acres during the year 2018-19, it has been increased to 26,250 acres during the year 2021-22.

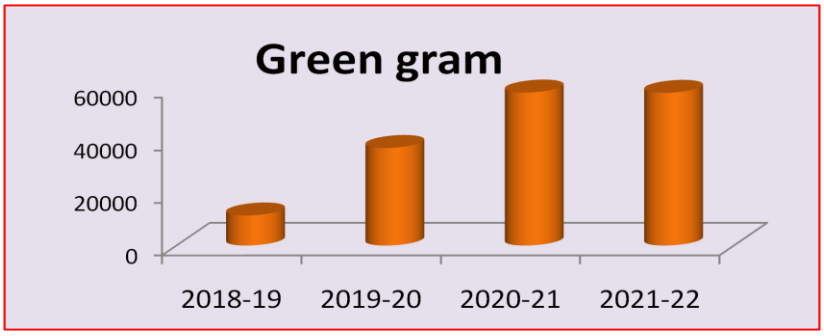


Fig.**Area sown under pulses in Nagarkurnool district during 2021-22**

Area under blackgram crop was 450 acres during the year 2018-19, it has been increased to 6,250 acres during the year 2021-22. KVK, Palem played lead role in increasing area and production in pulses through Seed Hub Project and CFLDs on Pulses.

2. **Impact of FLDs on IPM practices in adopted villages**

- ✓ FLDs on IPM Practices were conducted in cotton, paddy, Groundnut, chilli and Redgram from 2018-19 to 2021-22. Demonstrated IPM practices in 94 ha across 209 locations of four adopted villages. Conducted field days, training programmes, group discussions and diagnostic field visits.

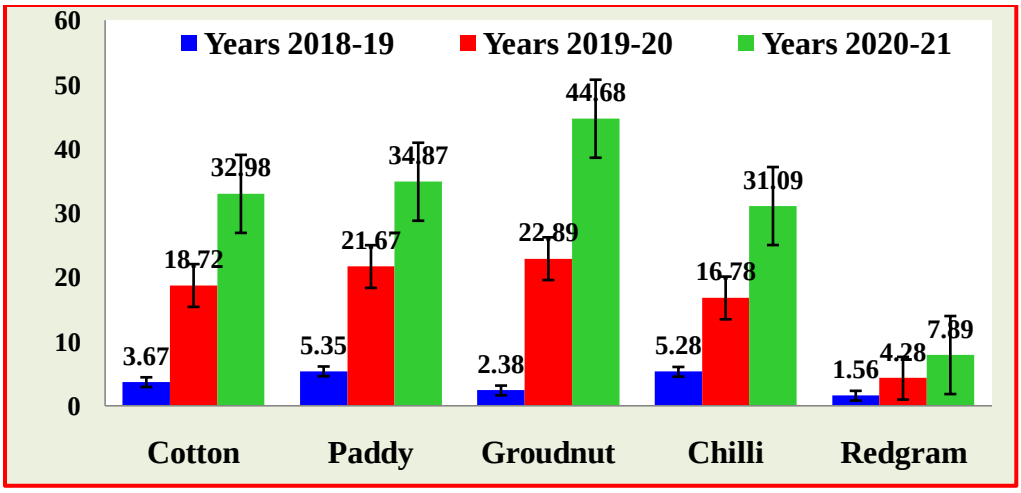


Fig. Percentage of Area of KVK adopted villages under IPM practices

Particulars	2018-19	2019-20	2020-21	2021-22	Total
Area under demonstration (ha)	12	22	32	28	94
Number of locations	28	41	76	64	209

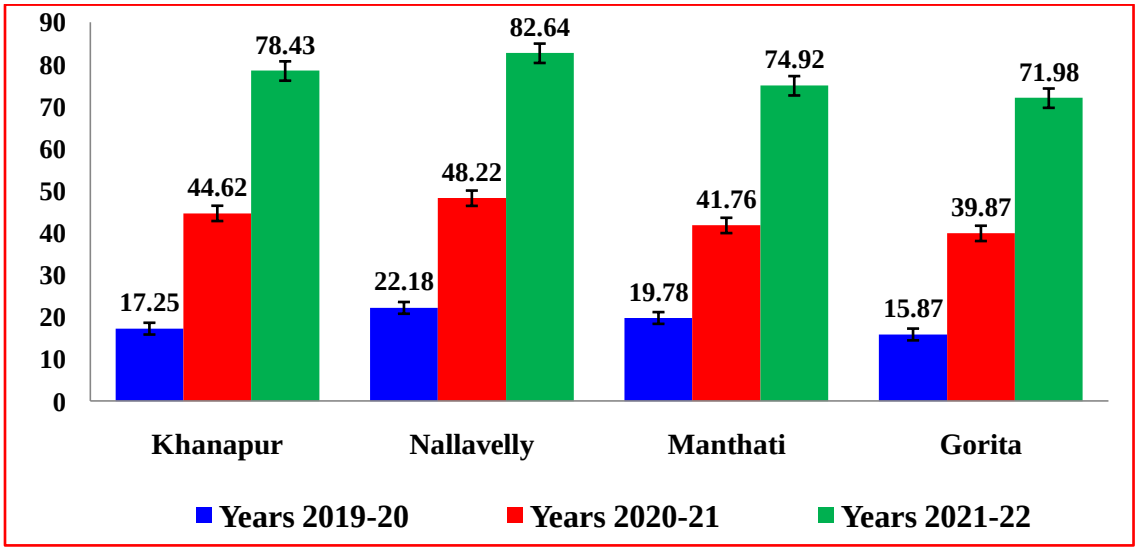
- ✓ The percentage of area of adoption of KVK adopted villages under IPM practices has been increased from 3 to 5 % during 2018-19 to 31 to 44 % during 2021-22. Reduced the pest incidence from 30 to 74 percent and also reduced 3 to 4 sprayings of harmful insecticides. The average yield of the crops increased from 12 to 18 percent and reduced the cost on pesticide sprayings to the extent of Rs.8,000 to 12,000/- per ha. The additional net returns to the farmer by the adoption of IPM practices is to an extent of Rs.18,000 to 24,000/- per ha.

3. Fall army worm management in maize

- ✓ The technology for the control of Fall Army Worm in Maize was disseminated in the district by conducting front line demonstrations across different locations over 3 years. The farmers got satisfied with integrated measures for the control of Fall Army Worm in Maize. Farmers got good BC ratio and yield with this management. With constant and continuous convincing, the farmers adopted these measures in their own fields. Horizontal expansion of this improved technologies may be achieved by

implementation of various extension activities like training programme, field day, exposure visit etc. in the farmer's fields.

- ✓ The percentage of the farmers adopted these practices in the operational area of KVK has been increased from 15 to 20 % during 2019-20 to 75 to 80 % during 2021-22.



4. Demonstration of Greengramproceeding to paddy, ground nut and chillie

- ✓ KVK, Palem promoting short duration GreengramVar.WGG 42 as first crop proceeding to paddy, ground nut, chillie and as a rotation crop after harvest of cotton, redgram and castor. As a part of this programme, KVK, Palem distributed 620 quintals of greengram (Var.WGG 42) seed to the farmers produced under seed hub project over 3 years. Accordingly distributed seed could have covered an acreage of 10,300 acres and contributing 60 % total green gram area of the Southern Telangana Zone. Cluster front line demonstrations on pulses and seed hub project on pulses has created visible impact among the farmers in terms of increasing productivity of pulses, increasing area under pulses, varietal replacement and socio economic status of the farmer.

5. Outreach of KVK, Palem in the District

Work done by KVK – 2021-22: The operational area of the KVK covers 20 blocks of the Nagarkurnool district**.** KVK, Palem have been conducted following activities across 1534 location per year from 2016-17 to 2021-22. These locations covered in 16 blocks of the district. the outreach or coverage of KVK activities has been expanded to 16 blocks of the district. KVK located in western part of the district, farmers from western part of the blocks have taken more advantage from the KVK activities. KVK planning to reach unreached blocks for the years to come.

Table: Work done by KVK during 2021-22 across the Nagarkurnool District

S.No.	Particulars	No. of Locations
1.	OFTs (1**5**)	68
2.	FLDs (16)	122
3.	CFLDs (4)	150
4.	Minikits (20)	106
5.	SC-SP Project (24)	982
6.	Seed production (4)	38
7.	RKVY Project	120
8.	HDPS Demonstrations	40
	Total	**1,534**

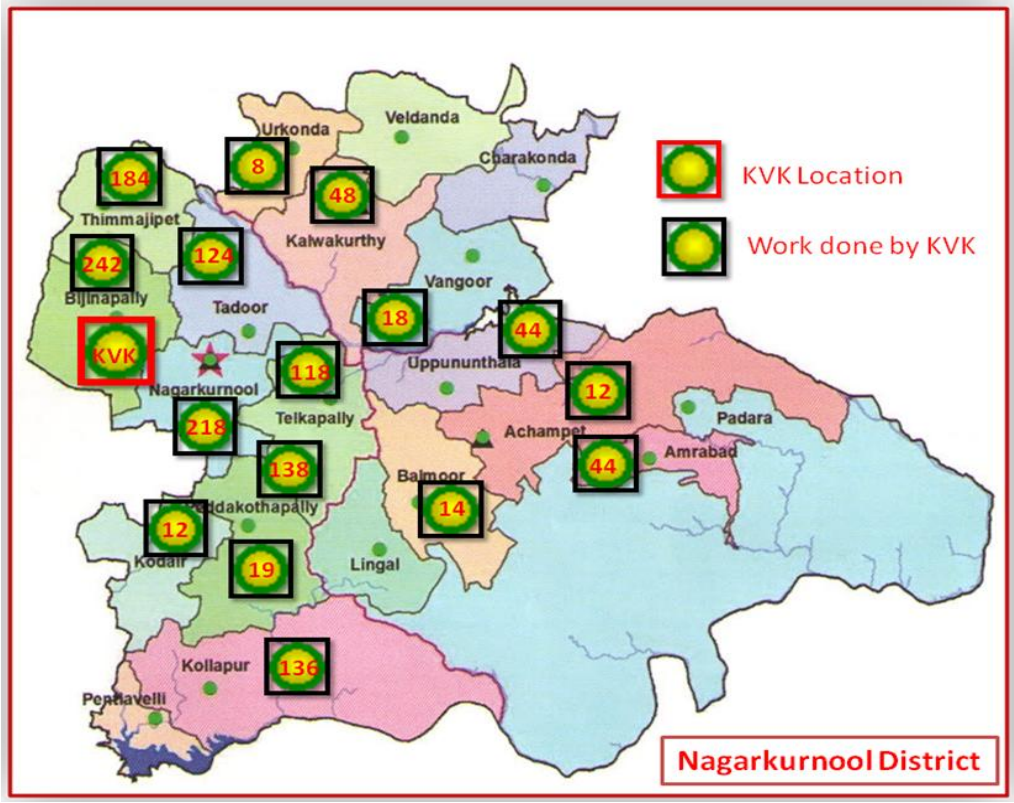


Fig: Outreach of KVK, Palem activities in the District

Other significant contributions

- ✓ Paddy seed produced of different varieties during 2014-15 to 2021-22 was 1404 quintals of foundation seed and distributed to the farmers on cost basis. A total of 13.79 lakh of quality planting material (Brinjal, Tomato Chilli, Marigold and drumstick) produced at KVK, Palem and distributed among the farmers.

- ✓ Krishi Vigyan Kendra, Palem conducted On Farm Trials and Front Line demonstrations in farmer's fields during 2016-17 to 2019-20 at different locations with high yielding varieties of crop and applying scientific package of practices in cultivation. The yield potential of these varieties by conducting demonstrations was increased to a great extent by proven technology. This substantially increased the income as well as the livelihood of the farming community of the Nagarkurnool district. This varieties gained a momentum in upscaling the crop productivity which created a positive impact on farming community.

- ✓ By the demonstration of hybrid (maxima yellow) marigold cultivation in KVK instructional farm. Nagarkurnool district farmers got awareness regarding the hybrid marigold cultivation and they started cultivation of hybrid marigold and getting more profits within a short span of time. The cultivation of the hybrid marigold had tripled the income of the farmers when compared to the other conventional crops.

- ✓ Under tribal sub plan KVK has promoted micro nutrient spray for the correction of micronutrient deficiency in cotton in tribal areas and demonstrated the increased yield due to micro nutrient spray. So that farmers got awareness regarding the micronutrient correction and they started spraying of micronutrients in cotton crop.

- ✓ The most profitable and sustainable technologies disseminated by the KVK, Palem in the adopted villages are Integrated pest management practices for the control of pink bollworm in cotton, BPH in paddy and FAW in maize followed by Machine transplanting and AWD in paddy. A series of field visits, trainings and farmer scientist interaction meetings were conducted for mobilizing the farmers for adopting these technologies. Farmers realized the importance of these technologies for the control of pest . Presently, 60 percent of the farmers adopted these practices in the operational area of KVK and as well as in the district.

- ✓ Farmers who trained through different KVK interventions possess more knowledge on marigold cultivation practices, onion cultivation practices, production technology in different Agricultural crops i.e., Paddy, Maize, Cotton, Groundnut & Redgram and Integrated Nutrient Management in Chilli.

- ✓ Farmers who underwent skill oriented training progrmmes posses more skill on vegetable nursery raising in portrays followed by handling of pesticides and using spraying formulation methods and ring cutter for harvesting in Bhendi.

- ✓ The training programmes conducted brought desirable changes among the farmers in terms of their knowledge, skills and attitudes on various technologies trained. Those undergone Vocational training programmes, Seasonal long training programmes, Yuva Raithu Saagu Badi and DAESI programmes on different aspects made some of them self dependent by earning monthly income.

Exposure visits to farmers and farm women within and outside of the district enlightened their understanding on various technological aspects

- ✓ Kisan Sammelans conducted with methodology technology blend on different topics with integration of staff and students of neighbouring institutions in the campus proved extremely successful and created a very good impact by making the existence of KVK, Palem known to many unknown farmers in the district.

- ✓ Many programmes on Energy Efficiency, e-NAM, Jala shakthi Abhiyan, Swatchata Pakwada conducted with agricultural allied departments of Public, private and NGOs promoted good convergence.

- ✓ Demonstrations on farm implements at KVK farm and farmers fields like Raised Bed Planter, Cotton Shredder, Power Weeder, Multi crop seed cum fertilizer drill convinced the farmers on farm mechanization so as to minimize the labour cost.

- ✓ Developed knowledge material on Extension literature *viz*., News letters, Success stories, Popular articles, Folders, Pamphlets and on other aspects in English and Telugu under the extension component Process Documentation through which disseminated farm information for the benefit of farming community. Also served the farming community through Radio talks and TV programmes.

- ✓ With the above methods and approaches in nutshell during five years period (2017-18 to 2021-22) as furnished in the application as per performance indicators, KVK, Palem created visible impact among the farming community by raising their socio economic standards.

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